AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method of forming a penetration electrode, comprising:

providing an electroconductive film on a first surface of a substrate, said substrate

including a first insulating layer disposed on the first surface and a second insulating layer

disposed on a second surface opposite the first surface, in at least a portion of the substrate where

the penetration electrode is being formed;

forming a micropore to penetrate through said substrate from the second surface of said substrate to the electroconductive film on the first surface of the substrate;

forming an insulating layer on inside walls of said micropore;

bonding a protecting member to the electroconductive layer on the first surface of said substrate;

inserting an electroconductive substance into said micropore, said electroconductive substance and said electroconductive film providing a conductive path through said substrate; and

removing said protective member from the electroconductive film on the first surface of said substrate in an area corresponding to the micropore;

wherein said electroconductive film blocks off a first aperture of said micropore at said first surface of the substrate, and

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wherein said electroconductive substance is inserted into said micropore via an aperture of said micropore at said second surface of said substrate.

- 2. (original): The method of forming a penetration electrode according to claim 1, wherein the electroconductive substance is formed by a metal and is inserted into the micropore using a molten metal insertion method.
- 3. (original): The method of forming a penetration electrode according to claim 1, wherein the electroconductive substance is formed by an electroconductive paste and is inserted into the micropore using a printing method.
- 4. (original): The method of forming a penetration electrode according to claim 1, further comprising:

after said electroconductive substance is inserted into said micropore, removing said protective member from said electroconductive film and said substrate.

5. (original): The method of forming a penetration electrode according to claim 4, wherein said protective member is removed from said electroconductive film and said substrate by heating said substrate.

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6. (original): The method of forming a penetration electrode according to claim 1, wherein inserting said electroconductive substance into said micropore includes applying a first pressure to a side of said electroconductive film facing said first aperture of said micropore,

wherein said protective member holds said electroconductive film in place when said first pressure is applied to the side of the electroconductive film facing said first aperture of said micropore.

- 7. (currently amended): The method of forming a penetration electrode according to claim 6, wherein said first pressure is higher than a second pressure on a side of said electroconductive film facing said protective member is higher than said first pressure.
- 8. (currently amended): The method of forming a penetration electrode according to claim 1, wherein said electroductive electroconductive substance fills said micropore.
 - 9. (cancelled).
 - 10. (cancelled).
- 11. (original): The method of forming a penetration electrode according to claim 1, wherein the electroconductive film and the electroconductive substance are different materials.

- 12. (withdrawn): A substrate with a penetration electrode, comprising:
- a substrate; an electroconductive film on a first surface of a substrate in at least a portion of the substrate having the penetration electrode;
- a micropore penetrating through the substrate and filled with an electroconductive substance, one end of said micropore being blocked by said electroconductive film, wherein said electroconductive substance is in contact with said electroconductive film; and
- a protective member on at least a portion of said electroconductive film blocking the end of said micropore, on a side of said electroconductive film opposite to said micropore, said protective member being bonded to said substrate.
- 13. (withdrawn): The substrate with the penetration electrode according to claim 12, further comprising:
 - a first insulating layer lining sidewalls of said micropore; and
- a second insulating layer on said first surface of the substrate, between said electroconductive film and said substrate, said micropore penetrating through the second insulating layer at the one end of said micropore being blocked by said electroconductive film,

wherein contact between said electroconductive substance and said electroconductive film is not obstructed by said second insulating layer,

wherein said first insulating layer is contiguous with said second insulating layer.

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14. (withdrawn): The substrate with the penetration electrode according to claim 13, further comprising:

a third insulating layer on a second surface of said substrate, opposite to said first surface, wherein there is an opening through said third insulating film at said electroconductive substance filling said micropore, and]

wherein said third insulating layer is contiguous with said first insulating layer.